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APPLICATION N	IO. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/009,016 03/12/2002		03/12/2002	Heikki Hyoty	U 013757-2	2116		
140	7590	02/18/2004		EXAMINER			
	& PARRY		MOSHER, MARY				
	r 61ST STRE Drk. Ny -1			ART UNIT	PAPER NUMBER		
11211 10	,		1648				
				DATE MAILED: 02/18/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applic	ation No.	Applicant(s)					
Office Action Summary			9,016	HYOTY ET AL.	·				
			ner	Art Unit					
			. Mosher, Ph.D.	1648					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply sepecified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status									
	Responsive to communication(s) filed	on							
2a) <u></u>	This action is FINAL. 2b)	☐ This action is	non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
5) [6) [7) [4) Claim(s) 1-35 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-35 are subject to restriction and/or election requirement.								
•	on Papers		•						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 									
Priority under 35 U.S.C. §§ 119 and 120									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 									
Attachment(s)									
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO nation Disclosure Statement(s) (PTO-1449) Pape		4) Interview Summary 5) Notice of Informal P 6) Other:						

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1, 3-7, 8-15, 19, 21, 23-25, 26, 27-30, 35, drawn to 1st method, preventing non-polio enterovirus diseases by administering oral polio vaccine.

Group II, claim(s) 2, 20, 22, 23-25, 26, drawn to 2nd method, preventing type 1 diabetes mellitus by administering oral polio vaccine.

Group III, claim(s) 16-18, 31-34, drawn to composition and method using serotype-specific non-polio enterovirus vaccine.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Groups I and II use same composition to prevent materially different diseases. Processes of manufacturing and administering oral polio vaccine are both old in the art, therefore the only feature of the invention which potentially defines over the art is the new target disease for which prophylaxis is intentended using the old vaccine. Since type I diabetes mellitus is not generally accepted as being an enterovirus disease (see as evidence Fohlman et al, page 104, first paragraph), the methods of preventing

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enterovirus diseases and the methods of preventing type I diabetes mellitus are seen as involving distinct technical features.

Group III lacks a common technical feature with group I, since it uses a different vaccine.

Group III contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Species of vaccine:

Coxsackie B serotype 1

Coxsackie B serotype 2

Coxsackie B serotype 3

Coxsackie B serotype 4

Coxsackie B serotype 5

Coxsackie B serotype 6

Coxsackie A serotype 9

Coxsackie A serotype 16

Echovirus serotype 3

Echovirus serotype 4

Echovirus serotype 6

Echovirus serotype 9

Echovirus serotype 11

Echovirus serotype 22

Echovirus serotype 30

Species of disease:

Non-polio enterovirus disease

Type I diabetes

Applicant is required, if group III is elected, to elect a single species of vaccine and a single species of disease, to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: As discussed above, since type I diabetes is not generally accepted as an enterovirus disease, it is seen as distinct from enterovirus diseases. Each species of virus serotype involves a distinct immune response, particularly because the claims require the vaccine to be serotype-specific.

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Therefore each species of virus has technical features distinct from each of the other species of virus.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary E. Mosher, Ph.D. whose telephone number is 571-272-0906. The examiner can normally be reached on M-T and alternate F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Housel can be reached on 571-272-0902. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

2/13/04

MARY E. MOSHER
PRIMARY EXAMINER
GROUP 1800 / 600

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